

# *Nebraska City High School*

## **2019-2020 Curriculum Guide**

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**Nebraska City High School**  
2018-2019

**I. Nebraska City Public Schools: An Overview**

Nebraska City is a historic town of 7,347 residents, located approximately 50 miles south of Omaha and 50 miles east of Lincoln. Nebraska City Public Schools has a total enrollment of 1,554 students. NCPS is accredited by the State of Nebraska and AdvancED North Central Association of Colleges and Schools.

**District Contact Information**

**Nebraska City High School**

141 Steinhart Park Road, Nebraska City, NE 68410

**Principal**

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**School Counselor**

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**Nebraska City Middle School**

909 1<sup>st</sup> Corso, Nebraska City, NE 68410

**Principal**

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**Dean of Students**

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**School Counselor**

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**Hayward Elementary School** (grades 3 – 5)

306 S. 14<sup>th</sup> Street, Nebraska City, NE 68410

**Principal**

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1200 14<sup>th</sup> Avenue, Nebraska City, NE 68410

**Principal**

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**Director of Curriculum, Assessment and School Improvement**

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**Alternative Education Instructor**

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## **II. Nebraska City High School Profile**

NCHS offers a comprehensive curriculum of college preparatory, dual-credit (high school/college), fine arts, creative studies, foreign language, business, physical education and technology courses. NCHS has a traditional semester system with an eight-period day. All students are required to be enrolled in at least seven classes per day. School is in session from 8:00 a.m. to 3:40 p.m. NCHS is a closed campus. Student grades are based on an unweighted, 4.0 scale.

### **Grading Scale**

Percentage	Grade	GPA
97 - 100	1+	4.0
93 - 96	1	4.0
89 - 92	2+	3.5
85 - 88	2	3.0
81 - 84	3+	2.5
77 - 80	3	2.0
73 - 76	4+	1.5
70 - 72	4	1.0
Below 70	5	0.0

### **Honor Roll\*\***

Gold	4.0
Silver	3.5-3.99
Bronze	3.0-3.49

*\*\*To be eligible for honor roll a student must maintain a 3.0 GPA and earn no grade below a 3 during the course of a quarter.*

CEEB Code # 281575  
(College Entrance Examination Board)

## **III. Activities**

NCHS is a member of the Eastern Midlands Conference (Class B) and offers a variety of activities. The school colors are purple and gold and the school mascot is the Pioneer. Students are encouraged to participate in a variety of activities.

### **Clubs and Organizations**

FBLA (Future Business Leaders of America)  
FCA (Fellowship of Christian Athletes)  
FCCLA (Family, Career & Community Leaders of America)  
FFA  
Marketing Club  
National Honor Society  
PRiDE (Drug-free Organization)  
Science Club  
Student Council  
Varsity Club  
Quiz Bowl

### **Athletics**

Baseball  
Basketball  
Cross Country  
Football  
Golf  
Soccer  
Softball  
Tennis  
Track & Field  
Volleyball  
Wrestling

### **Arts & Academics**

Forensics (Speech Team)  
Instrumental Music  
Musical  
One-Act Play  
Quiz Bowl  
Vocal Music

#### **IV. General Registration Information**

Students graduating from NCHS must successfully complete 240 credit hours of course work and 40 clock hours of community service. Each class is worth 5 credits per semester. Minimum requirements by subject area are listed below.

#### **Graduation Requirements**

<b>Subject Area</b>	<b>Required Credits</b>	
Language Arts	40	Must include: English 1 or Honors Eng. 1 (5), Comm. 1 (5), Eng. 2 or Hon. Eng. 2 (10), Eng. Literature 1 or 2 (5), American Literature 1 or 2 (5)
Social Sciences	35	Must include: World Cultures (10), Amer. Hist. (10), American Gov. and/or Hon. Amer. Gov. (10)
Mathematics	30	
Science	30	Must include: Earth Science (10), Biology (10)
Physical Education	10	Must include: PE 1 (5) and PE 2 (5)
School to Career	10	
Careers and Human Development	5	
Fine Arts	5	
Creative Studies	5	
Electives	70	
<b>Total Credits</b>	<b>240</b>	

#### **Community Service Requirement**

40 clock hours (10 hours per school year)

#### **Academic Timeline for Core Requirements**

##### **9<sup>th</sup> Grade**

- English 1 (1 semester)
- Communications 1 (1 semester)
- World Cultures (2 semesters)
- Earth Science (2 semesters)
- Mathematics (2 semesters)
- Physical Education 1 (1 semester)

##### **10<sup>th</sup> Grade**

- English 2 (2 semesters)
- American History (2 semesters)
- Biology (2 semesters)
- Mathematics (2 semesters)
- Careers & Human Development (1 semester)

##### **11<sup>th</sup> Grade**

- American Literature (1 semester)
- English Literature (1 semester)
- American Government (2 semesters)
- Mathematics (2 semesters)
- Physical Education 2 (1 semester)

##### **12<sup>th</sup> Grade**

- Language Arts (2 semesters)
- Social Studies (1 semester)

## Course Selection (\*=YEAR-LONG COURSE)

### Language Arts (40 credits)

- Amer. Lit 1
- Amer. Lit 2
- Beg. Journalism
- College Comp.
- Communications 1
- Creative Writing
- English 1
- English 2\*
- English Lit. 1
- English Lit. 2
- Honors English 1
- Honors English 2\*
- Journalism\*
- Nebraska Lit
- Reading & Writing Essentials

### Math (30 credits)

- Algebra 1\*
- Algebra 2\*
- Calculus\*
- College Algebra
- Consumer Math\*
- Geometry\*
- Honors Algebra 2\*
- Honors Geometry\*
- Intro to Geometry\*
- Pre-Calculus
- Statistics
- Trigonometry

### Science (30 credits)

- Animal Science 2 (Ag Science Path)
- Biology\*
- Chemistry 1\*
- Chemistry 2\*
- Earth Science\*
- Environmental Science\*
- Human Anatomy & Physiology\*
- Plant Science 2 (Ag Science Path)
- Physics\*

### Social Science (35 credits)

- American Gov. \*
- American History\*
- Contemporary Social Issues
- Criminal Justice
- History of Amer. Sports
- History of Cinema
- Honors Am. Government
- Psychology
- World Cultures\*

### Careers & Human Development (5 credits)

- C.H.D. (with CPR)

### Physical Education (10 credits)

- Physical Education 1
- Physical Education 2

### Fine Arts (5 credits)

- Applied Art & Sculpture
- Art 1
- Art 2\*
- Art 3 & 4\*
- Band\*
- Ceramics
- Drama
- Expressions\*
- Guitar\*
- Jazz Band\*
- Journalism\*
- Leadership Cadre\*
- Music Theory
- Photography
- Varsity Singers\*

### Creative Studies (5 credits)

- Applied Art & Sculpture
- Art 1
- Art 2\*
- Art 3 & 4\*
- Band\*
- Ceramics
- College Comp.
- Drama
- Expressions\*
- Guitar\*
- Jazz Band\*
- Leadership Cadre\*
- Music Theory
- Photography
- Varsity Singers\*

### School to Career (10 credits)

- Accounting 1\*
- Accounting 2\*
- Agribusiness
- Animal Science 1
- Animal Science 2
- Applied Agriculture
- Beginning Journalism
- Business Law
- Computer Applications
- Construction Academy (Year 1/Yr. 2) \*
- Criminal Justice
- Digital Media
- Diversified Occupations
- Early Childhood Development
- Energy Exploration
- Foods 1
- Foods 2
- Foods 3

- Food Science\*
- General Business
- Healthy Relationships
- Intro to Agriculture\*
- Intro to Health Sciences
- Intro to Industrial Tech.
- Info. Tech. Academy (Year 1/Year 2) \*
- Journalism\*
- Leadership & Ethics in Ag.
- Marketing\*
- Marketing 2-Entrepreneurship
- Medical Terminology
- Natural Resources\*
- Parenting 1
- Personal Finance
- Photography
- Plant Science 1
- Plant Science 2
- Web Design
- Welding Academy (Year 1/Year 2) \*
- Welding 1
- Welding 2
- Woods 1

### Other Electives

- Adv. Strength & Conditioning
- Basic Strength & Conditioning
- Foundations of Algebra\*
- Spanish 1\*
- Spanish 2\*
- Spanish 3\*
- Spanish 4\*
- Spanish for Native Speakers 1\*
- Spanish for Native Speakers 2\*

### Dual Credit Courses (Both High School and College Credit)

- Calculus\*
- College Algebra
- College Composition
- Construction Academy\*
- Honors American Government
- Info. Tech. Academy\*
- Medical Terminology
- Welding Academy\*

❖ **ONCE A GRADUATION CREDIT REQUIREMENT IN A SUBJECT AREA IS FULFILLED, ADDITIONAL COURSES TAKEN IN THAT SUBJECT AREA WILL COUNT AS ELECTIVE CREDITS!**

### College Credit ONLY Courses

- Psychology-Distance Learning
- Sociology-Distance Learning

### **Mid-term Graduation**

Students may be allowed to graduate in three and one half years (December of 12<sup>th</sup> grade year); however, the REQUIREMENTS TO GRADUATE REMAIN THE SAME. Parent or guardian permission is required for mid-term graduation. Students wishing to graduate mid-term must complete a mid-term graduation application and inform the school administration or counselor prior to the end of the 11<sup>th</sup> grade school year. All graduation requirements must be met prior to mid-term graduation.

### **Course Selection Guidelines**

1. All students, unless previously approved by building administration, must be enrolled in seven classes per semester.
2. All students are encouraged to select rigorous courses that will prepare them for a future in their vocation of choice.
3. All students are required to consult with parents or guardians when selecting courses.
4. Students who fail courses will be required to make-up the required credits.
5. NCPS reserves the right to amend course offerings based on student interest and enrollment.

### **V. Dual-credit Courses**

Students may enroll in dual credit courses for which they have an opportunity to receive high school and college credit. Dual credit courses are offered in cooperation with Southeast Community College and Peru State College. All courses are worth five high school credits.

<b>Course #</b>	<b>Course</b>	<b>Institution</b>	<b>College Credits</b>
ENGL 1010	English Composition 1	Southeast Community College	3 credits
PSCI 201	American National Gov.	Peru State College	3 credits
MATH 225	Calculus	Peru State College	5 credits
MATH 112	College Algebra	Peru State College	3 credits

### **Registration Guidelines (for dual-credit courses)**

1. Students must meet all prerequisites. (Consult counselor for course-specific prerequisite requirements.)
  2. College credit is optional. Students may choose to take these courses for high school credit only.
  3. Tuition must be paid in full by the student prior to the first day of the new semester. (Tuition is set by the college, not NCPS.)
  4. Students are responsible for all required textbooks and fees.
- Dual-credit courses are generally accepted at post-secondary institutions; however, students are encouraged to directly contact colleges regarding transfer-credit policies.

### **VI. College-credit (ONLY) Courses**

Students may enroll in college-credit only courses if all prerequisites are met. (Consult counselor for course-specific prerequisite requirements.) These courses are provided in cooperation with Southeast Community College. These courses are typically provided through distance-learning technology.

<b>Course #</b>	<b>Course</b>	<b>Institution</b>	<b>College Credits</b>
PSYC 1810	Introduction to Psychology	Southeast Community College	3 credits
SOCI 1010	Introduction to Sociology	Southeast Community College	3 credits

## **VII. Pioneer Career Academies**

In the spring of the 10<sup>th</sup> grade year, eligible students may apply for acceptance into one of the Pioneer Academies, which provide career-readiness education and training. Available academies include the Health Academy, Welding Academy, Construction Academy and Information Technology Academy. Pioneer Career Academy paths are listed below. For more information regarding any of the academies, consult school administration or the school counselor's office.

### **Construction Academy**

Year 1: Cabinet Construction & Finish Carpentry  
Year 2: Advanced Building Construction Essentials

### **Health Academy**

Year 1: Introduction to Health & Sociology or Psychology  
Year 2: Comm. in Allied Health or Life Span Human Dev. & Complete Medical Term.

### **Information Technology Academy**

Year 1: Info. Tech. Fundamentals & Computer Fundamentals  
Year 2: PC Support/MS Access & Webpage Fundamentals, Network & Database

### **Welding Academy**

Year 1: Welding II  
Year 2: Welding III

## **VIII. College Admittance Requirements**

### **University of Nebraska Entrance Requirements**

#### **Curricular Requirements for Admission**

- 4 Units of English (All units must include intensive reading and writing experience)
- 4 Units of Mathematics (Including Algebra I, Algebra II, Geometry and 1 unit that builds on the concepts of Algebra II)
- 3 Units of Social Sciences (1 unit of American History or World History, 1 unit of American Government or Geography, and one elective social sciences unit)
- 3 Units of Natural Science (At least 2 units selected from biology, chemistry, physics and earth sciences; must include laboratory instruction)
- 2 Units of Foreign Language (Both must be in the same language)

#### Assured Admission:

1. Complete 16 units of college-preparatory course work described above (1 unit=2 semesters)
2. Graduate in upper half of class or have a composite ACT score of 20 or higher (or a total of 1030 on the SAT Critical Reading and Math sections)

#### Admission by Review:

Applications from individuals who do not meet the requirements for assured admission will receive individual review by an admissions officer. Students who are admitted through the review process will be admitted in full standing, but may have certain conditions attached to their enrollment. Students who are admitted without completing all 16 course requirements, for example, will be required to successfully complete an approved college-level course in the area of deficiency within their first 30 credit hours.

#### Deferred Admission:

Students who do not meet the requirements for assured admission, and who are not admitted after individual review of their application materials, will be deferred until they have gained additional academic preparation.

## Typical College Admission Policies for 2 and 4 Year Colleges

### College Admission Categories

#### Open

- All high school graduates accepted to limit of capacity.
- Typical ACT score: 17-20

#### Liberal

- Some accepted freshmen from lower half of graduating class.
- Typical ACT score: 18-21

#### Traditional

- All accepted freshmen in top 50% of graduating class.
- Typical ACT score: 20-23

#### Selective

- Majority of accepted freshmen in top 25% of graduating class.
- Typical ACT score: 22-27

#### Highly Selective

- Majority of accepted freshmen in top 10% of graduating class.
- Typical ACT score: 27-31

### IX. Future-planning Resources

There are a variety of resources available to assist students in planning for the future. Listed below are websites that may be useful in planning for college and/or a career.

[www.act.org](http://www.act.org)

- ACT information, including sample tests

[www.collegeboard.org](http://www.collegeboard.org)

- College-selection tools, financial aid information, career exploration resources, etc.

[www.unl.edu](http://www.unl.edu)

- University of Nebraska Lincoln information, including admission requirements, student-life information, visit sign-up, etc.

[www.gocollege.com](http://www.gocollege.com)

- College admission and financial aid resources

[www.collegenet.com](http://www.collegenet.com)

- Scholarship resources

[www.fastweb.com](http://www.fastweb.com)

- Scholarship resources

[www.educationquest.org](http://www.educationquest.org)

- Various forms of college information and planning services

[www.4tests.com](http://www.4tests.com)

- Test preparation for a variety of college-entrance and career-readiness exams

[www.number2.com](http://www.number2.com)

- Free ACT preparation

[www.nelnet.com](http://www.nelnet.com)

- Student loan services

[www.hsf.net](http://www.hsf.net)

- Scholarship resources for Hispanic students



## **Section X: Guidelines for Collegiate Athletes**

If students are considering participating in athletics at the collegiate level, the websites listed below provide details regarding eligibility guidelines.

### **NCAA Guidelines**

- <http://www.ncaapublications.com/productdownloads/CBSA17.pdf>

### **National Association of Intercollegiate Athletics Guidelines**

- [http://www.naia.org/fls/27900/1NAIA/legislative/rulesed/RulesEd\\_FreshmanEligibility\\_Handout.pdf](http://www.naia.org/fls/27900/1NAIA/legislative/rulesed/RulesEd_FreshmanEligibility_Handout.pdf)

## **XI. Course Descriptions**



## ~LANGUAGE ARTS~

### **English I**

Grade Level: 9

Duration: 1 semester

Credits: 5

In this course, students will develop the various modes of writing, focusing specifically on research methodology and emphasizing the Six-Traits of Writing and utilization of standard conventions. This course will also focus on advancing reading comprehension through the study of literature. Specific works may include *Animal Farm* and *Romeo and Juliet*, along with various short stories. Vocabulary development will be emphasized as well.

### **Honors English I**

Grade Level: 9

Duration: 1 semester

Credits: 5

○ Prerequisite: Average grade of 2 in previous English courses and/or teacher recommendation

This course will mirror the concepts covered in English I. In this course, students will develop the various modes of writing, focusing specifically on research methodology and emphasizing the Six-Traits of Writing and utilization of standard conventions. This course will also focus on advancing reading comprehension through the study of literature. Specific works may include *Animal Farm* and *Romeo and Juliet*, along with various short stories. Vocabulary development will be emphasized as well. In addition, Honors English I will challenge advanced students to analyze themes and explore the effects of specific literary elements through a variety of methods.

### **Communications I**

Grade Level: 9

Duration: 1 semester

Credits: 5

In this course, students will study the communication process with an emphasis on oral communication. Students will focus primarily on public speaking and interpersonal communication, while developing skills that will promote effective communication in a variety of settings. Projects may include debates, speeches and analysis of communication in the digital world.

### **English II**

Grade Level: 10

Duration: 2 semesters

Credits: 5 per semester

In this course, students will study a variety of literary forms including short story, autobiography, drama and science fiction. Individual works may include *To Kill a Mockingbird*, *The Narrative of Frederick Douglass*, *The House on Mango Street* and *The Illustrated Man*. This course will focus on narrative and analytic writing using the Six Traits of Writing. An emphasis will also be placed on vocabulary development.

### **Honors English II**

Grade Level: 10

Duration: 2 semesters

Credits: 5 per semester

In this course, students will study a variety of literary forms including short story, autobiography, drama and science fiction. Individual works may include *Julius Caesar*, *Lord of the Flies*, *To Kill a Mockingbird*, *The Narrative of Frederick Douglass* and *The Illustrated Man*. Composition instruction will focus on persuasive writing and literary analysis, utilizing the Six Traits of Writing. Vocabulary study and development will also be emphasized.

### **American Literature I**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this his course, students will study early American literature from the Colonial Period (early 1600s) to the Rise of Realism (late 1800s). Selected works may include “Self-Reliance” and *The Adventures of Huckleberry Finn*.

### **American Literature II**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will study American literature from Naturalism (late 1800s) to the present. Selected works may include *The Great Gatsby* and “Acquainted with the Night.”

### **English Literature I**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will study English literature from the Anglo Saxon period to the 18<sup>th</sup> century, through works such as *Beowulf*, *Canterbury Tales* and *Hamlet*. Students will also compose a research paper, engage in ACT-preparatory activities and practice text-dependent analysis.

### **English Literature II**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will study English literature from the Restoration Period and the 18<sup>th</sup> century to modern day, through the works of Jonathan Swift, William Blake, John Keats and Charles Dickens. Specific novels may include *A Tale of Two Cities* or *Great Expectations*. Students will also compose a research paper and a compare and contrast essay, engage in ACT-preparatory activities and practice text-dependent analysis.

### **Nebraska Literature**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will explore the world of literature as it relates to Nebraska. Students will explore novels, poetry and short stories written by Nebraska authors. Students will also complete a group presentation over an influential writer from Nebraska.

### **Reading and Writing Essentials**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

○ Prerequisite: Successful completion of English I and English II

In this course, students will review and develop higher-level reading and writing skills necessary to be successful in post-secondary endeavors.

### **Creative Writing**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

○ Prerequisite: Grade of 2 or above in English II or Honors English II

In this course, students will study exemplary writing as well as compose a variety of their own works. Students will create multidimensional pieces that showcase individual creativity. Projects may include short stories, children's books, poetry blogs, autobiographies and more.

### **College Composition 1 (\*DUAL CREDIT)**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

○ Prerequisite: ACT sub score of 18 or higher on English section or Accuplacer score of 78 or above

○ Fees: Tuition and book fee

This course will be offered for college credit through Southeast Community College (and high school credit) and will follow SCC's guidelines for ENGL 1010. The course is designed to prepare students to compose essays at the college level and will consist of at least 25 pages of essay writing (divided between 5-6 essays), each focusing on a specific purpose. At least one essay will require secondary research and appropriate documentation in MLA style (which will be covered in this course). Grammar lessons will be utilized to aid students in the writing process. By the end of the course, students should be able to plan, write, revise, and edit strong essays.

### **Beginning Journalism**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

In this course, students will study the field of journalism, with an emphasis on technology. Students will concentrate on media influences, interviewing, news and feature writing, editing and design. The ability to work with technology and the English language, including accurate spelling and strong vocabulary are recommended.

## **Journalism (Yearbook)**

Grade Levels: 10-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Application and/or teacher recommendation

In this course, students will produce the yearbook for Nebraska City High School. Each student will be responsible for producing stories, layouts, designs and advertising as necessary to complete the publication. Emphasis will be placed on creativity, organization, writing, editing, photography and student production of the publication. Strong spelling and vocabulary usage skills are required.

## **~WORLD LANGUAGE~**

### **Spanish I**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Requirement: Must successfully pass 1<sup>st</sup> semester to advance to 2<sup>nd</sup> semester

This course is designed for students who are interested in learning the language and the culture of Hispanic countries. In this course, students will focus on vocabulary, sentence construction, and verb tenses. Oral and written skills will also be emphasized.

### **Spanish II**

Grade Levels: 10-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Spanish 1

In this course, students will continue to develop the concepts and skills introduced in Spanish I in order to develop a more advanced understanding of the Spanish language.

### **Spanish III**

Grade Levels: 11-12

Duration: 2 semesters

Credit: 5 per semester

- Prerequisite: Successful completion of Spanish 2

In this course, students will be introduced to advanced grammatical concepts of the Spanish language. Oral and written skills will be emphasized. Utilization of projects that encourage communication and culture will add to the depth of language study.

### **Spanish IV**

Grade Level: 12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Spanish 3

In this course, students will continue to build upon the skills and concepts mastered in previous Spanish courses. Students will take an in-depth look into Hispanic cultures. Students read authentic literature and other selections associated with the cultures as well as extend skills by completing projects that require creative use of the Spanish language.

### **Spanish for Native Speakers I**

Grade Levels: 10-11

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Spanish is primary language spoken at home

In this course, students for whom Spanish is a primary language will focus on grammatical concepts and the use of professional language. This course will alternate on a yearly basis with Spanish for Native Speakers II.

### **Spanish for Native Speakers II**

Grade Levels: 10-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Spanish is primary language spoken at home

In this course, students for whom Spanish is a primary language will continue to develop the knowledge base introduced in Spanish for Native Speakers I. Students will expand their language proficiency through an emphasis on the study of literature, culture and translation skills. This course will alternate on a yearly basis with Spanish for Native Speakers I.

## ~MATHEMATICS~

### **Algebra I**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Required materials: Basic 4-function calculator.

In this course, students will develop equation-solving skills and apply these skills to problems. Course content will include the study of variables, inequalities, multiple-step equations, linear inequalities, systems of equations, exponents, quadratic equations, polynomials, factoring, rational equations and radicals.

### **Foundations of Algebra**

Grade Level: 9

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Teacher recommendation and/or test scores identifying deficiency

- Corequisite: Concurrent enrollment in Algebra 1

This course is offered to as a companion course to Algebra I, to 9<sup>th</sup> grade students who struggle with math concepts. In this course, students will be provided with additional support and extended time to understand and practice the concepts taught in the regular Algebra I course. Students will work in small groups on a variety of learning activities designed to reinforce Algebra I concepts. Students will be selected for this course based on standardized test scores and teacher recommendation. This course provides elective credit only (**NOT MATH CREDIT**).

### **Introduction to Geometry**

Grade Level: 11

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Algebra I or teacher approval

Introduction to Geometry often follows Algebra I. This course is designed for students achieving at or near grade level. In this course, students will study basic components of geometry. This course will include instruction related to geometry, spatial concepts, data analysis, probability, statistics and review of algebraic concepts.

### **Geometry**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: successful completion of Algebra I

- Required materials: Ruler, compass, protractor and calculator

Geometry is the study of shape properties. In this course, students will focus on polynomials, angles and proofs. This course is designed to develop logical reasoning skills and improve problem solving ability, while preparing students for further work in mathematical courses. Students hoping to meet the minimum college mathematic requirement should take this course.

### **Honors Geometry**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Average grade of 2+ or higher in Algebra I and/or teacher recommendation

- Required materials: Scientific calculator

Geometry is the study of shape properties. In this course, students will focus on polynomials, angles and proofs. This course is designed to develop logical reasoning skills and improve problem solving ability, while preparing students for further work in mathematical courses. This is a college-preparatory course designed for students interested in exceeding the minimum college mathematic requirement and will move at an accelerated pace in order to explore geometric concepts in detail.

## **Algebra II**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Algebra 1 and Geometry
- Required materials: Scientific calculator

In this course, students will review basic algebraic concepts in order to enhance ACT Math scores. Topics covered include solving for an unknown variable, real and complex numbers, solving systems and computations with matrixes and conics. Students hoping to meet the minimum college mathematic requirement should take this course.

## **Honors Algebra II**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Average grade of 2 or higher in Geometry or Honors Geometry and teacher permission
- Required supplies: Scientific or graphing calculator

In this course, students will review basic algebraic concepts in order to enhance ACT Math scores. This course will move at an accelerated pace. Topics covered include solving for an unknown variable, real and complex numbers, solving systems and computations with matrixes and conics. Students hoping to exceed the minimum college mathematic requirements should take this course.

## **Consumer Math**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

In this course, students will focus on math applications in personal finance. Topics covered in this course include basic finance skills, income checking and saving accounts, loans, household budgeting, insurance, credit cards, stocks and saving for retirement. The course includes online, real-life simulation gaming. A personal finance program is integrated in this course. This course includes no homework and lots of fun!

## **Trigonometry**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Algebra 2
- Requires supplies: Scientific calculator

Successful completion of Trigonometry will prepare students to take Pre-Calculus at the college or high school level. In this course, students will study topics and skills such as finding the values of all six trigonometric functions, graphic trig functions, finding amplitude, period and phase shift, converting to polar coordinates and solving triangles using trigonometry.

## **Pre-Calculus**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Trigonometry.
- Required supplies: Scientific calculator

Successful completion of Pre-Calculus will prepare students to take beginning college math courses. In this course, students will study topics such and skills such as inverse and composite functions, solving systems, graphing equations, conics, logarithms and solving problems involving complex numbers.

## **College Algebra**

Grade Level: 12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Trigonometry and Pre-Calculus.
- Fees: Tuition and book fee
- Required materials: Scientific calculator

This course offers college credit through Peru State College and is specifically for students who need College Algebra (Math 112) in their chosen college majors. Topics include functions, linear equations, asymptotes, graphing, exponents, logarithms and inverse equations.

## Statistics

Grade Level: 12

- Prerequisite: Successful completion of Trigonometry and Pre-Calculus
- Required materials: Scientific T1-83, T1-83 plus or T1-84 calculator

Successful completion of Statistics will provide students with an introduction into what will be presented in college statistics courses. In this course, students will study topics and skills such as finite probability, random variables, probability distributions, making and testing inferences, and collecting and displaying data.

Duration: 1 semester

Credits: 5

## Calculus

Grade Level: 12

- Prerequisite: Successful completion of Trigonometry and Pre-Calculus.
- Required materials: Scientific or grafting calculator

Students have the option of dual enrolling in this course for college credit through Peru State College. In this course, students will begin by reviewing exponential functions, trigonometry and logarithms. New materials covered include limits and the theory of limits, differentiation rules, tests and applications, such as related rates optimization, and curve sketching and integration rules and applications, such as area, work and volume.

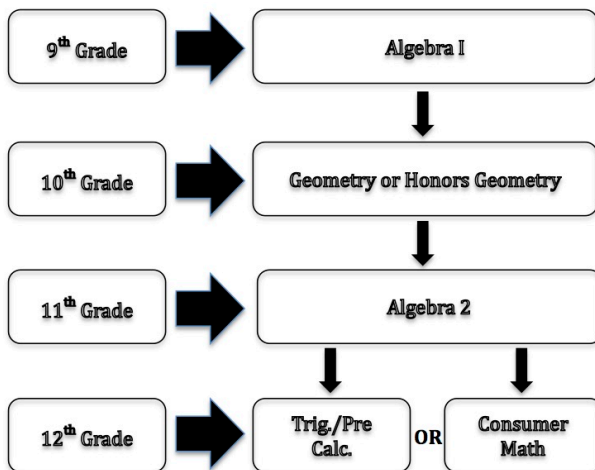
Duration: 2 semesters

Credits: 5 per semester

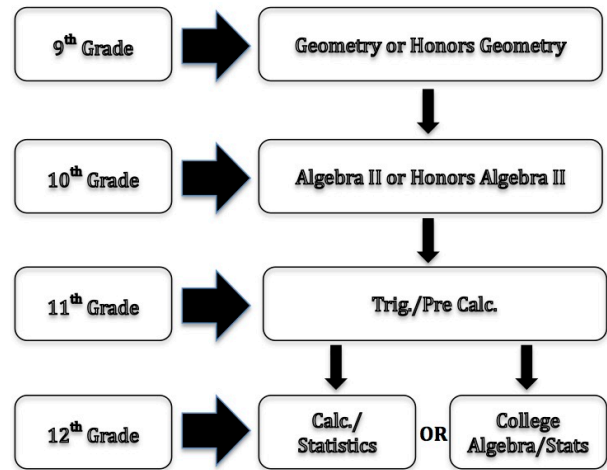
**MATH OPTIONS NOTE:** With so many courses to choose from, it can be difficult to decide which math classes to take. Students are required to take three years of math at Nebraska City Public Schools, but NCPS recommends taking four years, if possible. Students planning to attend college after graduation should be aware that many colleges require Algebra 1, Geometry and Algebra 2 (at minimum) in order to be accepted. Some universities also require a fourth year of advanced math. It is possible for students to take five or more years of math by taking 20 math credits in one year (with teacher permission). The chart below provides the most commonly selected and teacher-recommended mathematics paths available at Nebraska City High School.

### Mathematics Paths

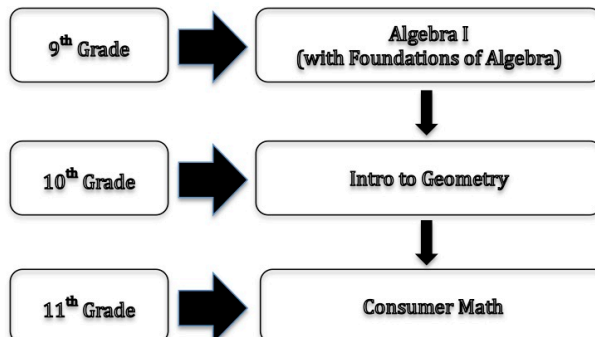
#### Option #1



#### Option #2



#### Option #3





## ~SCIENCE~

### **Earth Science**

Grade Level: 9

Duration: 2 semesters

Credits: 5 per semester

In this course, students will begin to understand how science, technology and society influence one another. Units of study will include astronomy, oceanography, geology and meteorology. Traditional lecture and laboratory activities will be utilized along with computer work and film viewing when necessary.

### **Biology**

Grade Level: 10

Duration: 2 semesters

Credits: 5 per semester

In this course, students will seek to understand the basic concepts of life science. Topics include cells, genetics, energy, ecology, evolution and animal behavior. Laboratory investigations will illustrate these fundamental themes and develop scientific inquiry skills.

### **Chemistry**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Algebra and Geometry
- Corequisite: Concurrent enrollment in Algebra II or Trigonometry
- Requirement: Must successfully pass 1<sup>st</sup> semester to advance to 2<sup>nd</sup> semester

This is a college prep course on introductory chemistry and includes the study of matter and energy, atomic structure and electron configuration, the periodic table, ionic and molecular compounds, organic compounds, chemical equations, stoichiometry, acids and bases and chemical laboratory skill development. This course includes lecture, demonstration, reading, problem solving and laboratory work.

### **Chemistry II**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Algebra, Geometry, Chemistry
- Corequisite: Concurrent enrollment in Algebra II or Trigonometry

This course is a continuation of Chemistry. Activities will include labs and reading requirements. In this course, students will acquire a basic understanding of fundamental chemical principles, establish a firm basis for subsequent chemistry classes, learn chemical laboratory skills and develop an appreciation of chemistry and its effects on our world and society.

### **Environmental Science**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Earth Science and Biology

In this course, students will gain knowledge and technical skills to identify, analyze, and offer solutions to environmental issues. In this course, students will conduct research in the areas of climate, natural resources, air and water quality, ozone depletion, sustainable development, solid and hazardous waste management, and other problem solving topics impacting our biosphere. Students will also be introduced to physical science topics such as chemical reactions and motion.

### **Physics**

Grade Level: 12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of Algebra 1 & 2, Geometry,
- Corequisite: Concurrent enrollment in Trigonometry or Calculus

This is a college-preparatory course on introductory physics. In this course, students will study estimation, equilibrium, vectors, kinematics, mechanics, momentum and collisions, energy, heat, nuclear, electricity and magnetism, waves and sound and light. The course includes numerous labs, using Vernier lab equipment and software, demonstrations, problem solving, reading and lecture.

## **Human Anatomy and Physiology**

Grade Level: 12

- Prerequisite: Successful completion of Biology and Chemistry
- Fees: Cost of goggles (\$5)

In this course, students will be introduced to the major organ systems of the human body. Applications are made to real-life issues such as nutrition, disease and injury, learning, health careers and athletic performance. Students will dissect animal organs to help understand the design of similar human structures. Because of the quantity of information, this course is designed for students who have experienced success in previous science courses.

Duration: 2 semesters

Credits: 5 per semester

## **~SOCIAL SCIENCES~**

### **World Cultures**

Grade Level: 9

In this course, students will be exposed to a general geography unit covering landforms, climates, vegetation, etc., as well as units studying the United States, Canada, South America, Eastern and Western Europe, Russia, the Middle East, Africa, Asia, the Orient, and the Pacific World. This course will also include a brief overview of pre-history and Egyptian times, Greek and Roman civilizations, medieval society, the Renaissance and Reformation. The time of European Exploratory: The French Revolution and slave trade will be also discussed as well as the Industrial Revolution, World War I and World War II, from the perspectives of countries other than the U.S.A.

Duration: 2 semesters

Credits: 5 per semester

### **American History**

Grade Level: 10

In this course, students will be provided with a basic account of United States History from the Progressive Era to present day. Students will learn the key events that transformed the United States to the nation that we know today. Students will understand how major events are connected chronologically and will analyze the events, people, and ideas using various sources. Topics will include major events and distinct individuals as well as significant roles the United States has played throughout the world.

Duration: 2 semesters

Credits: 5 per semester

### **American Government**

Grade Level: 11

In this course, students will trace constitutional democracy to its foundations. Judicial process and foreign policy will be studied. Governmental powers will be analyzed in terms of the consequences to the individual citizen. This course will also cover topics in economics, including a free market economy and the role of the national, state, and local government in the United States economy.

Duration: 2 semesters

Credits: 5 per semester

### **Honors American Government**

Grade Level: 11

- Prerequisite: 2+ GPA
- Fees: Tuition and book fee

This course is a dual credit course, meeting the NCHS American Government requirement and providing an opportunity to earn college credit through Peru State College. This course is designed to give students a critical perspective on government and politics in the United States. This course will encourage the study of political concepts, analysis of specific case studies and the use of sound judgment in making political choices.

Duration: 1 semester

Credits: 5

**\*OFFERED 1<sup>st</sup> SEM.**

### **Contemporary Social Issues**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of American History

In this course, students will be provided with an understanding of the social issues that surround the world each and every day. Students will analyze the current issues that exist in our society. Topics will vary and may include global economics systems, human rights, laws, health issues, environmental issues, crime, family and generational problems, education and the role the United States plays in the 21<sup>st</sup> Century. This class will feature several "hot topics" within the area of sociology.

### **Psychology**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of American History

In this course, students will be introduced to contemporary psychology focusing on basic concepts, principles, and terminology trends in psychology research and the application of this knowledge.

### **Criminal Justice**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of American History

In this course, students will experience a general introduction to American law. This course will include general law, curriculum development with law enforcement and professional lawyer input.

### **History of American Sports**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of American History

In this course, students will examine the development of sports throughout the history of the United States. Students will learn how sports impact the country through culture, economics and politics. Students will use historical analysis to further understand the influence American sports have on society and examine the significance of gender, race, ethnicity and social class within American sports.

### **History & Cinema**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of American History
- Requirement: Signed parent/guardian permission slip in order to view film content

In this course, students will be provided with an intense look at how Hollywood has portrayed the accounts of true history throughout the last seventy years. Students will research historical events and then evaluate a Hollywood film based on the respective events. Students will evaluate the information based on accuracy, settings, events, and the actual outcome. (Possible titles include: *Pearl Harbor*, *Saving Private Ryan*, and *Ali*)

## **~BUSINESS & TECHNOLOGY~**

### **Computer Applications**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

In this course, students will develop skills using Microsoft Office programs, including Word, Excel and Access. This course may also explore presentation tools such as PowerPoint and Prezi.

**General Business**

Grade Level: 10

Duration: 1 semester

Credits: 5

In this course, students will be introduced to the world of business and basic economic principles, such as banking, investing and obtaining credit. Everyone in our economy interacts with business through the products we buy, the advertisements we see and hear, the jobs we hold and the money we invest. Through this course, students will begin to understand the role of business in our society and their relationship to business and the economy.

**Digital Media**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will develop skills in video and audio production and web-based streaming. Students will record and broadcast Nebraska City activities and events as well as practice editing, archiving, interviewing, working with support staff, producing video elements and planning and executing campaigns promoting class projects.

**Business Law**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students will learn about the justice system and the law as it applies to business crimes, civil lawsuits, contracts, property rights and employment. Students will discover rights and responsibilities as an individual and as a businessperson. Business ethics and current events related to business law will also be explored.

**Accounting I**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

○ Suggested prerequisite: General Business

In this course, students will develop an understanding of the basic principles of accounting. Students will learn how to analyze transactions and divide them into debit and credit sections. Students will prepare and interpret balance sheets, income statements, ledgers, journals, income tax forms and payroll reports. Students will also learn how to set up accounting spreadsheets using Microsoft Excel.

**Accounting II**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

○ Prerequisite: Successful completion of Accounting I

In this course, students will be introduced to new topics that build on the content covered in Accounting I. Students will study departmentalized accounting, corporate accounting, management accounting and cost accounting. An automated accounting system will be used in combination with manual systems.

**Marketing I**

Grade Levels: 11-12

Duration: 2 semesters

Credit: 5 per semester

Did you know that in the average day, you are exposed to over 3,000 marketing messages? In this course, students will be introduced to the study and application of the marketing mix of product, place, price and promotion. Market research, consumer behavior and customer service as they relate to marketing will also be covered. This course is recommended for students who want to explore a career in the business world or understand how marketing influences buying decisions.

## **Marketing 2 – Entrepreneurship**

Grade Levels: 11-12

Duration: 2 semesters

Credit: 5 per semester

In this course, students will apply their knowledge of marketing and management by developing a business plan and putting that plan into action by running an actual small business. The role of entrepreneurs in our economy, their traits and the advantages and disadvantages of owning your own business will be reviewed and discussed. Students will also discover the management, leadership and marketing skills needed to be successful in business.

## **Diversified Occupations**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5 per semester

Through this course, students will focus on developing the skills necessary for competitive employment after graduation. Students will participate in both paid and unpaid work placements in the community, while developing employment skills, work attitudes and behaviors necessary to maintain paid job placements. Supportive services to the employer and employee are provided on the job or within the classroom setting. Accountability required of all parties through agreements between the school, students, parents and employers in conjunction with on-site supervision and quarterly evaluations.

## **Careers and Human Development**

Grade Level: 10

Duration: 1 semester

Credit: 5

Through this course, students will begin exploring and selecting career paths. Students will begin with a unit on goal setting and discovering personal career aptitudes, skills and values. Students will research the 16 different career clusters, as well as discover various training and education options. Units on job searching, work skills, business ethics and professional behavior will prepare students to obtain and maintain employment. Personal finance and budgeting topics will encourage responsibly in money management. This course will also include safety and health topics, such as CPR, to ensure personal wellness in the future. This course is a graduation requirement and is taken during 10<sup>th</sup> grade.

## **Web Design**

Grade Levels: 9-12

Duration: 1 semester

Credit: 5

In this course, students will be introduced to the world of computer programming. Students will design web pages using HTML, CSS, and JavaScript. Students will also have the opportunity to explore PHP and MySQL. Let your creative side show while creating professional up-to-date websites that are pleasing to the eye and easy to use. No computer or programming skills are necessary to enjoy this class.

## **Personal Finance**

Grade levels: 11-12

Duration: 1 semester

Credit: 5

In this course, students will develop the knowledge necessary to effectively manage income and assets throughout various stages of life. This course will cover a variety of topics including personal decision-making as it relates to career choices, risk management and retirement.

## **~INDUSTRIAL TECHNOLOGY~**

### **Introduction to Industrial Technology**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

o Fees: Cost of supplies (\$20)

**\*OFFERED 1<sup>st</sup> SEM.**

In this course, students will get an overview of the industrial technology field. Students will touch on the areas of woodworking, welding, board drafting and computer-aided drafting. Students will complete hands-on activities in each of these individual areas.

**Woods I**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Introduction to Industrial Technology
- Fees: Cost of supplies (\$10)

In this course, students will gain a general understanding of woodworking tools that are related to the woodworking and cabinetmaking industries. This course will include the use of hand tools, portable power tools and stationary power tools. Students will complete a hands-on project in the first quarter of the course and also receive classroom instruction in the areas of shop safety and general shop operation. Student will then use the skills that they have developed to complete a more challenging project.

**Welding I**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Introduction to Industrial Technology
- Fees: Cost of supplies (\$10)

In this course, students will develop a basic understanding of Oxygen-Acetylene welding and cutting, ARC (stick) welding and MIG (wire feed). The basic principles and techniques of each of these areas will be studied through hands-on work in the shop. Over 95% of the activities in this course will be completed in the shop.

**Welding II**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Welding I
- Fees: Cost of supplies (\$10)

In this course, the study of ARC (stick) welding will be continued with more emphasis on machine adjustments and completing more challenging assignments in different positions on different metals. The plasma cutting process will also be introduced. Through this course, students will increase their knowledge of advanced cutting and welding techniques.

**~FAMILY & CONSUMER SCIENCE~****Foods I**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5 per semester

- Fees: Cost of supplies (\$20)

In this course, students will be introduced to the study of ourselves in relation to the foods we eat. This course will provide the basics of nutrition and the importance of well-balanced meals. Labs will relate to meal management, good nutrition and food preparation.

**Foods II**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Foods I
- Fees: Cost of supplies (\$20)

In this course, students will develop an understanding of the principles of nutrition and the relationship of nutrition to health and well-being. Students will also be exposed to advanced food preparation techniques and food customs the United States and other countries.

**Foods III**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Foods I and Foods II
- Fees: Cost of supplies (\$20)

In this course, students will continue to develop the skills and knowledge introduced in Foods II. More advanced culinary skills are required to participate in this class. There may be some catering involved outside of the school day.

### **Parenting 1**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

In this course, students will study pregnancy, prenatal development and delivery. This course covers prenatal development through age two. This course also addresses the roles of parents and their responsibilities. Students will get to experience computer-simulated babies.

### **Early Childhood Development**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

In this course, students will study emotional, social, physical and intellectual development of children ages three to six. Students will design and implement lessons for preschool children and early elementary children. Skills for effective parenting of older child will be presented; child abuse, disease and emergencies will be discussed.

### **Healthy Relationships**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

In this course, students will study interpersonal relationships and the effect of these relationships on the well being of individuals, families, work and society. This course includes concepts such as effective communication, establishing and maintaining relationships, diverse family systems, characteristics of personal development and the impact of relationships on personal success and career success.

### **Introduction to Health Sciences**

Grade Levels: 11-12

Duration: 1 semester

Credits: 5

In this course, students planning a career in a health profession will be provided with a foundation of knowledge. This course will familiarize students with careers that promote health and wellness as well as diagnosis and treatment of injuries and diseases. Students will be prepared to continue post-secondary education, focusing on careers directly related to the pathways of research development, diagnostic services, health informatics, support services and therapeutic services. Topics covered may include (but are not limited to) health care, patient care, disease prevention, identification of medical equipment and supplies, medical terminology, first aid procedures and ethical and legal responsibilities. This course will foster critical thinking and ethical practice through course work integrated through hands-on learning. Students will be offered a range of clinical practicum experiences through affiliations with area hospitals, physicians' clinics, nursing homes, assisted-living centers, pharmacies and rehab facilities.

## **~AGRICULTURE~**

### **Introduction to Agriculture, Food Science and Natural Resources\***

Grade levels: 9-10

Duration: 2 semesters

Credits: 5 per semester

In this course, students will be exposed to the world of agriculture, the pathways of study they may pursue within the field, and the science, mathematics, reading and writing components they will use throughout the CASE™ curriculum. Students will explore career and post-secondary opportunities in each area of the course. Experiences will involve the study of communication, the science of agriculture, and the study of plants, animals, natural resources and agricultural mechanics. Classroom and laboratory activities are supplemented with supervised agricultural experiences and leadership programs and activities.

\* This course is the prerequisite for the agricultural education science credit pathway.

### **Plant Science 1**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

In this course, students will study plant anatomy and physiology, soil and hydroponics. Students will gain a foundational knowledge of botany in order to be successful in future plant-based courses. Students will participate in Supervised Agricultural Experiences (SAEs) and will complete a science fair project. This course will count as elective credit only, but will serve as a prerequisite for Plant Science 2.

## **Plant Science 2**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

○ Prerequisite: Successful completion of Plant Science 1

In this course, students will build upon their knowledge of plant anatomy and physiology, soil and hydroponics developed in Plant Science 1. Floriculture units will be incorporated into this course, and students will participate in Supervised Agricultural Experiences (SAEs) and will complete a science fair project. This course will count as a science credit IF students have completed Plant Science 1 and Introduction to Agriculture and completed the necessary paperwork to declare the Agricultural Science Pathway.

## **Animal Science 1**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

In this course, students will study careers that relate to the animal industry. Students will gain a foundational knowledge of a variety of topics, including taxonomy, handling, selecting, marketing, products, nutrition and health. Students will create an ongoing producer's management guide, participate in Supervised Agricultural Experiences (SAEs) and complete a science fair project.

## **Animal Science 2**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

○ Prerequisite: Successful completion of Animal Science 1

In this course, students will broaden their knowledge of careers that relate to the animal industry. Students will develop a deeper understanding of animal industries, cells, tissues, reproduction and genetics, as these topics relate to the agricultural industry. Students will create an ongoing producer's management guide, participate in Supervised Agricultural Experiences (SAEs) and complete a science fair project. This course will count as a science credit IF students have completed Animal Science 1 and Introduction to Agriculture and completed the necessary paperwork to declare the Agricultural Science Pathway.

## **\*AGRICULTURAL EDUCATION SCIENCE CREDIT PATHWAY**

Students may choose to receive science credits through the agricultural education science credit pathway. In order to do so, students must take Introduction to Agriculture during their 9<sup>th</sup> or 10<sup>th</sup> grade school year. Students must declare the agricultural education science pathway (by completing the necessary paperwork with the agricultural education teacher). Once students have declared this pathway, and met all necessary prerequisites for the respective agricultural education science pathway courses, Animal Science 2 and Plant Science 2 will count as science credits. Students must earn a grade of 3 or better in each of the qualifying agricultural science courses in order to receive science credit. Even when this pathway is declared, students are required to take Earth Science and Biology during the 9<sup>th</sup> and 10<sup>th</sup> grade school years.

## **Agribusiness**

Grade Level: 12

Duration: 1 semester

Credits: 5 per semester

○ Prerequisite: Successful completion of Animal Science 1 or Plant Science 1

In this course, students will develop skills necessary for entry into employment or furthering education in agricultural business. The course includes the study of business organizations, including business structures, job responsibilities, job applications, interviewing, human relations, marketing, selling, displaying, using business machines, management and entrepreneurship skills. Classroom and laboratory activities are supplemented with supervised agricultural experiences and leadership programs and activities.

## **Energy Exploration**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

In this course, students will take an in-depth look at the energy industry. Methods of commercial power generation including fossil fuels, nuclear power and renewable energy generation will be discussed. Hands-on application of energy principals as well guest speakers and facility tours will provide a first-hand look at the industry.



### **Independent Agricultural Study**

Grade Levels: 10-12

Duration: 2 semesters

Credits: 5 (2.5 per semester)

- Prerequisite: Teacher approval

In this course, students will work independently on various agricultural projects, particularly those related to FFA endeavors and Supervised Agricultural Experiences (SAEs). This course is an option for students who desire to be in FFA but whom are not able to fit an agricultural class into the regular school day. As the National FFA Association and Public Law 105-225 requires that students participating in FFA complete a minimum of the equivalent of one semester of agricultural credits per school year, this course will allow students who would not otherwise be able to participate due to scheduling, to remain active in FFA. All projects in this course will be completed outside of class. The supervising teacher will be available before and after school and by appointment to respond to questions and assist in facilitating the completion of mutually agreed upon assignments.

### **Applied Agriculture**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

In this course, students will develop a basic understanding agriculture, including plant care and growth, soil, livestock management and identification, food science, natural resources and alternative energy. Students enrolled in this course will not participate in FFA contests. This course will not count as an agricultural class for FFA members.

\*Successful completion of courses in the agricultural field will require students to participate in projects, public speaking and record keeping. Students are also encouraged to participate in job shadowing.

## **~ART~**

### **Art I: Theory and Fundamentals of Art**

- Grade Levels: 9-12

- Fees: Cost of supplies (\$5)

In this course, students will be introduced to visual arts. This course will deal with a broad variety of media and materials used to study the elements and principles of design. Students will be introduced to a wide range of mediums. Included in this class will be drawing, painting, illustration, printmaking, color theory and beginning graphic design work. Specifically, students will learn the prerequisites needed to excel in all other art courses. Works produced in this course will lead to the creation of portfolio-quality works.

Duration: 1 semester

Credits: 5

### **Art II: Two Dimensional Design and Illustration**

Grade Levels: 10-12

Duration: 2 semesters

Credit: 5 per semester

- Prerequisite: Successful completion of Art 1

- Fees: Cost of supplies (\$10)

In the course, students will continue to build on the skills and concepts introduced in Art I. Students will develop art techniques in a range of mediums in both two and three-dimensional art. This course is an in depth study of composition and format that explores the principles of the art elements. Design projects will involve development of strong images through different mediums that communicate ideas and expression. Students will be graded on discussion, participation, projects, homework and craftsmanship.

### **Art III & IV: Advanced Art**

Grade Levels: 10-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Grade of 2 or higher in Art II
- Fees: Cost of supplies (\$10)

This is a course is designed for serious art students who are willing to work independently, using self-discipline, time management and problem solving. In this course, students will develop original ideas working with a wide variety of mediums and techniques. Students critique their own work as well as receive evaluations from the instructor. Matting and framing projects will be implemented for display or exhibit. Students will be graded on discussion, participation, projects, and craftsmanship. All students eligible will be asked to participate in the Kimmel Arts Exhibition.

### **Sculpture & Applied Art**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5

- Prerequisite: Art 1
- Fees: Cost of supplies (\$15)

In this course, students will develop a broad understanding of sculpture and applied art. Applied art is the application of design and aesthetics to objects of function and everyday use. The fields of industrial design, graphic design, fashion design, interior design, decorative art and functional art are considered applied arts. Students will develop design projects including personal logos and poster designs. Students will also learn to work with a variety of materials in a two-dimensional space, using the additive and subtractive, freestanding and kinetic sculpture techniques. Students will be graded on discussion, participation, projects and craftsmanship.

### **Ceramics**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

- Prerequisite: Art 1
- Fees: Cost of supplies (\$10)

In this course, students will develop a broad understanding of basic construction in pottery. Techniques included in this course are hand-built methods and basic wheel-throwing construction. Students will develop an array of projects including coil, slab, wheel and hand thrown pieces of art. Students will be graded on discussion, participation, projects and craftsmanship.

### **Photography**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

- Corequisite: Concurrent enrollment in Art I, Art II, Art III & IV or Journalism

In this course, students will study photographic history, principles and concepts. Students will also work with computer programs and computer photo manipulation. Students must provide their own digital cameras and have the ability to print pictures approximately every two weeks. Priority will be given to students committed to the yearbook or Art I, II, or III & IV.

### **Leadership Cadre**

Grade Levels: 11-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Two recommendations from teachers or trusted individuals from the community

In this course, students will focus on four areas directly impacting student achievement, including leadership, collaboration, engagement and data. Students will analyze data and determine the best course of mentoring assigned freshmen for academic and social success during the fall semester. Students will also be responsible for planning opportunities for collaboration and engaging ninth grade students in academic goal setting.

## ~MUSIC & PERFORMING ARTS~

### **Varsity Singers**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Requires materials: Black dress pants and black, closed-toed dress shoes for performances

In this course, students will study advanced choral literature and participate in the musical, concerts and competitions. Any students having difficulty providing black slacks and dress shoes must contact the instructor well in advance of any performance and the instructor will conference with the school administrator on each individual situation in an attempt to make arrangements.

### **Band**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

- Prerequisite: Successful completion of middle school band or previous lessons
- Fees: Marching shoes (\$20) and cost of instrument

In this course, students will study advanced band literature and participate in concerts, parades, contests and athletic events.

### **Music Theory**

Grade Levels: 9-12

Duration: 1 semester

Credit: 5

- Corequisite: Concurrent enrollment in music program

In this course, students will study basic techniques of notation and analysis of music.

### **Guitar**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 5 per semester

In this course, students will study the fundamentals of guitar. Students will learn to read chord charts, tabs, standard notation and basic music form. Students will also study music theory concepts through guitar. Practical application of acquired skills in both ensemble and solo work will be emphasized. The guitar ensemble will participate in concert performances as well.

### **Expressions**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 2.5 per semester

- Corequisite: Concurrent enrollment in Varsity Singers
- Fees: Cost of outfit

Expressions members will be selected by audition during May of the previous school year. Through membership in this choral ensemble, students will learn choral music in various styles, which may include vocal jazz, pop music and Broadway. Students will also learn choreography and prepare a show that will be performed at area schools and for several concerts and competitions.

### **Pioneers of Jazz (Jazz Band)**

Grade Levels: 9-12

Duration: 2 semesters

Credits: 2.5 per semester

- Prerequisite: Middle School Band or lessons in trumpet, saxophone, trombone, baritone, piano, drum set, vibraphone or bass guitar or teacher permission
- Corequisite: Concurrent enrollment in high school band or teacher permission

In this course, students will study beginning and intermediate level jazz ensemble music in the genres of: swing, Latin, rock, etc. The group will perform in band concerts, attend two to three festivals a year and perform at District Music Contest. There will be an emphasis on the process and technique of improvisation.

## **Drama**

Grade Levels: 10-12

Duration: 1 semester

Credits: 5

- Prerequisite: Successful completion of Communications

In this course, students will be introduced to dramatic art and its development. Students will study the development of theatre, acting and plays from the Greeks through modern drama. Students will also explore the techniques of acting and the practical aspects of play production, as well as have the opportunity to apply this knowledge.

## **~PHYSICAL EDUCATION~**

### **Physical Education 1**

Grade Level: 9

Duration: 1 semester

Credits: 5

In this course, students will study tennis, golf, volleyball, cricket, team handball, country line dancing, and change of pace activities, such as scooter games, gym baseball, whiffle ball, obstacle course, etc. Many lead-up drills will be used before these sports will be played. Several sports will have written tests covering history, rules and terminology.

### **Physical Education 2**

Grade Level: 11

Duration: 1 semester

Credits: 5 per semester

In this course, students will focus on lifetime activities. These activities include angling, self-defense, aerobic dance, fitness tubes, archery, tennis, cricket, golf, bowling, darts, table tennis, lacrosse, croquet and aquatics. Health topics appropriate to these activities, such as nutrition, fitness and eating disorders, will also be discussed.

### **Basic Strength and Conditioning**

Grade Levels: 9-12

Duration: 1 semester

Credits: 5 per semester

In this course, students will gain an understanding of basic weight training, and learn proper technique for lifting and spotting. This is an introductory course, specifically designed for freshmen, non-athletes, and students wanting a better understanding of weight training. This course provides elective credit only (**NOT P.E. CREDIT**).

### **Advanced Strength and Conditioning**

Grade Levels: 10-12

Duration: 1 semester

Credit: 5 per semester

- Prerequisite: Grade of 2+ or higher in Basic Strength and Conditioning and teacher permission
- Corequisite: Participation in school-affiliated athletic program

In this course, student athletes will enhance their physical abilities and knowledge gained from Basic Strength and Conditioning. Students will be challenged, both physically and mentally, to become stronger, more competitive student athletes. This course provides elective credit only (**NOT P.E. CREDIT**).

## **~RESOURCE EDUCATION~**

### **Life Skills**

Grade Levels: 9-12

Duration: 2 semesters

Credit: 5 per semester

In this course, students will learn everyday living skills. Students will practice, cooking, cleaning, personal hygiene, working with money, shopping skills, taking phone messages, community activities and exploring job opportunities. This course will include a variety of math, English, science and history lessons. This course is intended for students enrolled in the resource education program with a certificate of completion goal.

~EL (English Learning)~

**EL**

Grade Levels: 9-12

This course is designed to improve the education of students with limited English proficiency by providing them with enhanced instructional opportunities to develop the necessary listening, speaking, reading and writing skills that will assist them when meeting challenging state academic content and student academic achievement standards.

Duration: 2 semesters

Credits: 5 per semester

**EL Math**

Grade Levels: 9-12

In this course, students will be provided with language support in conjunction with mathematical instruction in basic math concepts. This course is designed to provide students with mathematical background knowledge that will prepare them for success in grade-level math courses. This course provides elective credit only (**NOT MATH CREDIT**).

Duration: 2 semesters

Credits: 5 per semester